


<b>Lesson 5-5</b>  <b>Subtracting Mixed Numbers</b>	<b>Objective:</b>  SWBAT to subtract mixed numbers with and without renaming.	 <b>Homework Video Tutor</b> <b>Web Code:</b> aqe-0505
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### Example 1- Adding with Unlike Denominators

You grow plants for a science project. One plant is  $11\frac{3}{4}$  inches tall. Another plant is  $7\frac{5}{8}$  inches tall. Find the difference in heights of the plant.

(1) Mentally Estimate: \_\_\_\_\_

(2) Subtract whole numbers, then fractions:

$$\begin{array}{r} 11\frac{3}{4} \rightarrow \\ - 7\frac{5}{8} \rightarrow \\ \hline \end{array}$$

(3) Does your answer make sense? \_\_\_\_\_, because \_\_\_\_\_ is close to \_\_\_\_\_.

### Example 2- Renaming a Whole Number

Find  $7 - 2\frac{5}{8}$

(1) Mentally Estimate: \_\_\_\_\_

(2) Rename the whole number (7) as a mixed number \_\_\_\_\_, then subtract as normal:

$$\begin{array}{r} 7 \rightarrow \\ - 2\frac{5}{8} \rightarrow \\ \hline \end{array}$$

(3) Simplify if necessary.

### Example 3- Renaming a Mixed Number

One lion cub weighs  $7\frac{1}{8}$  pounds. Another cub weighs  $5\frac{3}{4}$  pounds. How much more does the heavier cub weigh?

$$7\frac{1}{8} - 5\frac{3}{4}$$

(4) Mentally Estimate: \_\_\_\_\_

(5) Rename \_\_\_\_\_ as \_\_\_\_\_ or \_\_\_\_\_

$$\begin{array}{r} 7\frac{1}{8} \longrightarrow \\ - 5\frac{3}{4} \longrightarrow \\ \hline \end{array}$$

(6) Simplify if necessary.



### Quick Checks

a) Subtract  $5 - 3\frac{2}{3}$

b) Subtract  $10\frac{2}{3} + 7\frac{5}{6}$

Homework Exercises

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Show Your Work!	Show Your Work!